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SECURITY INFORMATION

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PROVISIONAL INTELLIGENCE REPORT

PETROLEUM IN THE SOVIET BLOC

PRODUCTION AND EXPLORATION OF PETROLEUM IN THE USSR

CIA/RR PR-17 (LB)

ANNEX

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Note

The data and conclusions in this report do not necessarily represent the final position of CRR and should be regarded as provisional only and subject to revision. Additional data or comments which may be available to the user are solicited.

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APPENDIX A

DERIVATION AND SOURCES OF DATA

1. Petroleum Geology and Cilfield Exploitation."

Reference c (2) is a condensed source of information on Soviet petroleum geology.

For records of Soviet oilfield exploitations as well as petroleum geology, considerable detail is provided in References a, d, e (1) and e (2). For an analysis of pre-war data with intelligence estimates of the potentials now existing in this connection, basic information is contained in References a to f, inclusive. The information in question has become increasingly meager since 1939. Various other intelligence sources furnish some of the information for the subsequent periods, but mostly in fragmentary or generalized form. These other sources are especially those dealing with cilfield exploitation. Many classified reports contain what appears to be proper information for target lists, referring to restricted cilfield areas in a manner similar to others that refer to restricted areas with refining facilities.

Reports of this character are, however, typically too barren in detail, or too ambiguous even when other sources substantiate the data, for much use in estimating potentials. Cf. Reference h.

^{*} See Section 3 of this Appendix for a list of selected references.

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also contains estimates of the recent explcitation and production potentials.	But
where this source oppears to give the later data with a responsible besis, la	38
reliable origins are believed to prevail for the similar later information in	25X1
Reference e (1). The source of the latter	_ 25X1
has not been in the USSR since the beginning of World War II	
,	25X1

25X1

a 2 a

2. Fatroleum Froduction in the USSE,

Recorded statistics are believed to be reliable for the total annual petrole m productions obtained prior to World Wer II in the USSR. Non-Communist analyses are believed to have further derived reasonably accurate estimates of the subsequent annual USSR petroleum productions. Special references upon these productions are list in part 3 of this Appendix. An intelligence estimate if presently made of the 1950 USSR petroleum yield by productive regions, and for this the following correlations and assumptions are applied. Here the quantities are stated in thousands of metric tons per year (Te₃/Yr), and otherwise in berrels of 42 US gallons per calendar day (RPCD). In this connection, it is noted that the 1950 production "Flan" was not published in complete detail for the separate productive regions in Russia (i.e., the Soviet Union).

The total 1950 Soviet natural petroleum production is assumed to have been 37,500 Te₃/Tr (References k(7), k(8)). Of this total, 16,500 Te₃/Tr were derived from the "eastern" regions (Reference k(7)). There are eight of these eastern regions, comprising the Second Baku, Pechora, Sakhalin, and Soviet Central Asis productive areas.

The Second Baku consists of three productive regions, Volga, Ural, and Kama, and it is convenient to combine the first two as the Volga-Ural region. The Second Esku, Pechora, and Sakhalin areas lie within the Federal Republic of Soviet Russia (Russian Socialist Federated Soviet Republic, RSFSR), and the Soviet Central Asia regions lie within five other constituent republics (Soviet Socialist Republics, SSR) of Russia (Union of Soviet Socialist Republics, USSR). The Volga-Ural region consists

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of the Volga region in Kuibyshev Oblast and of the Ural region in the autonomous republics (Autonomous Soviet Socialist Republics, ASSR) of Bashkir and Tatar.

The Kama region lies within Molotov Oblast, the Fechera Region lies within the Kami ASSR, and the Sakhalin region lies within Sakhalin Oblast.

The Soviet Central Asia regions are those designated as Emba, (Mazak SSR),
Turkmen (Turkmen SSR), and Southeastern Central Asia (SSR of Kezak, Wzbek, Kirghiz,
and Tadzhik). The Kazak SSR production is minor in the last region and it may be
considered to be a portion of the Emba region for estimating.

21,000 Te₃/Ir was therefore produced in 1950 in the eight "western" productive regions of the USSR. The eight regions in question are situated in southern European Russia, comprising the Carpathian, Central Southern, and Soviet Caucasus productive areas. The Carpathian (Western Ukraine) region is the former Polish productive area, now in the Ukraine SSR. The Central Southern area is of minor importance, consisting of the Eastern Ukraine region which is also in the Ukraine SSR, and of the Crimea region in the RSFSR. The Soviet Caucasus regions consist of the Kuban-Maikop and Grozny regions in the RSFSR, of the Daghestan region in the Daghestan ASSR of the RSFSR, of the Baku region in the Azerbaijan SSR, and of the minor South Georgian region in the SSR of Georgia.

14,500 Tey/Tr was the "Plen" goal for the RSFSR, containing the Volgo-Ural,
Kama, Pechora, Sakhalin, Crimea, Kuban-Maikop, Crozny, and Daghestan regions (Referencesk (1) and k(2)). 12,700 Tey/Tr was the "Plan" goal for the eastern regions consisting of Volgo-Ural, Kama, fechora, Sakhalin, Emba, Turkmen, and Jouth-eastern
Central Asia (Reference k(7)). Including the small eastern production of the Kazok
SSR in the Southeastern Central Asia region, the "Plan" goal for the Emba region was

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1,200 Te₄/Yr (References k (1) and k(2)). The similar "Flan" goal for the Turkmen region was 1,104 Te3/Yr and exclusive of the small eastern production of the Kaza of SSR, it was 1,206 Teg/Yr for the Southeastern Central Asia region (1,066 in Uzbek, 80 in Kirghiz, and 60 in Tadzhik) (References k(1) and k(2)). Therefore in the Volg:-Ural, Kama, Fechora, and Sakhalin regions of the RSFSR, the " Plan" goal was 9,190 Te3/Tr (= 12,700 - 1,200 - 1,104 - 1,206). In the Crimea, Kuban-Maikop, Grozny, and Deghestan regions of the RSFSR, it was 5,310 Teg/Tr (= 14,500 - 9,190).

The remaining "Flan" goals were 325 Te3 /Trin the Ukraine SSR (Carpathian and $E_{\rm g}$ stern Ukraine regions), 17,000 Te₃/Tr in the Baku region, and 110 Te₃/Tr in the South Georgian region. This gives a total "Plan" goal of 35,455 Te3/Yr for 1950 in the USSR (References k(1) and k(2))

According to official statements of Dulganin (Reference k(7)) and Beibakov (Reference k(8)), these five productive areas exceeded the * Plan* goals in 1950: Kuban-Meikop region, Crozny region, Turkmen region, Volga region (Kuibyshev area), and the Bashkir area of the Ural region. Further according to the Bulganin statement, restoration to pre-war status was accomplished in two of the latter regions (Kuban-Maikop and Grozny), as well as in the Carpathian or Western Ukraine region (Reference k(7)). Bulgenin also reported special setisfactory results in the areas designated as Turkmen, Kuibyshev, and Bashkir, as well as in the Sakhalin region, the Emba region (Kazak area), the Tatar area of the Gral region, and the Uzbek area of the Southeastern Central Asia region. Therefore it is assumed that in the Carpathian, Kuben-Maikop, and Grozny regions, the respective 1950 productions approached pre-war rields. It is noted that the Bashkir and Tatar areas constitute the Ural region, and that the Uzbek area furnishes most of the production in the Southeastern Central Asia region Correlating these considerations, it is assumed that the "Plan" goals were at least

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attained in the Volga-Ural, Sakhalin, Emba, and Southeastern Central Asia regions:

Intelligence generally indicates that the "Flan" goals were representative if the actual regional productions, except for the deficiency in Eaku and the large rate. tive increase and excess in the eastern regions (References k(1), k(2), and k (7), The Euban-Maikop region produced 2,471 Te₃/Yr in 1939, and the Crosmy region 2, 64 Te₃/Yr. The total of these 1939 values (4.535 Te₃/Yr) is equivalent to about 90,700 barrels per calcudar day (BPCB), and assuming their combined 1950 production to move been within 1.5 percent of this, or 89,000 BPCD (4,450 Te₃/Yr), the combined productions in the Daghestan and Crimea regions would appear to be about 860 Te₃/Yr.,

(** 5,310 - 4,450). The Daghestan value is recorded as only 196 Te₃/Yr in 1939.

Projected data, however, infer more than 18,000 BPCD (900 Te₃/Yr) for the 1950 production in Daghestan, and about 300 BPCD (15 Te₃/Yr) in the minor Crimea region (References a (20) and 1, and various other intelligence sources referring to the

For the Sewiet Central Asia regions, the "Plan" goal total was 3,510 Teg/Tr (70,200 MPCD), and adjusted estimates of the actual 1950 productions give a total of 73,500 B°CD (3,675 Teg/Tr). The indicated total in the remaining eastern regions (the Volga-Ural, Kana, Pechora, and Sakhalia regions in the RSFSR) would therefore appear to be 12,825 Teg/Tr (= 16,500 - 3,675). Projected data infer a value of about 225,000 B°CD (11,250 Teg/Tr) for the 1950 Volga-Ural production, and about 16,000 RPCD (300 Teg/Tr) for the corresponding Sakhalia region yield (References a(20) and j and various others, similarly as for the Daghestan and Crimea regions). For the Sakhalia region, Reference e estimates that the 1950 production will exceed 10,000 B°CD. The present estimate for Sakhalia is, however, considerably less than the 1,000 Teg/T:

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otherwise tentatively estimated in intelligence analyses. Projections similar to no foregoing show about 9,500 (BPCD (465 Teg/Yr) for the 1950 Pechora region production, and about 6,500 (BPCD (325 Teg/Yr) for the 1950 yield from the Kama region.

The South Georgian region is assumed to have produced in the order of the "Plan" goal in 1950. The Ukraine SSR regions (Carpathian and Eastern Ukraine) are assumed to have had similar status in combination. The Carpathian region is in particular estimated to have produced at about the apparent pre-war rate (6,000 BP(D) or 300 Teg/Yr). The estimate for Baku is about 300,000 BPCD (15,000 Teg/Yr) (Reference k(11)).

The 1950 estimates are summarized in Tables 3 and 3-A. Certain minor adjustments are applied in the table, and certain other productivity data and estimates are incoluded for comparative purposes. Other intelligence references in addition to those designated in the table also contain data for estimating the production break-down: in the USSR oil regions in recent years. Typical examples are References a(2), a(1), a(6), a(10), a(16), a(25), a(1), k(4), and likewise several intelligence agency respects not presently listed as reference documents. Other intelligence estimates are especially available for the 1950 break-downs, mostly based upon an erratic sequence of annual production percentages are reported. These percentages are referred to a production base such as the data for 1940, and the percentages cumulations may involve serious error. Some of the isolated and critical percentages of the correlated chain may have been highly erroneous as reported, for instance, and the percentages are semetimes actually unavailable so that they must be estimated to complete the links in the chain. Authenticity of the production base figures may also be open to question

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in applying these percentages. The percentage cumulations give 1950 regional productions somewhat at variance with those presently derived: the latter are essentially based upon the reported 1950 "Plan" fulfillments, correlated with pre-War statistics believed to be authentic.

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TABLE 3. Estimates and Records of Natural Patron aum Productions USSR Areas

		Ref	erences j(7) and j	8)			
			roleum Only		(Total with	Utilized	Natural Ga	s Fluids 3
Regions and Other Areas	1939	1940	1045	1948	1939	1940	1945	1948
Carpathian (Western Ukreine) Eastern Ukraine (Summy-Romny) Ukraine SSR Area	the second of	C .	- DECEMBER (April 1984) - The springer		75 1/	3/ 3/ 3/ 1/	2/ 2/ 350 1/ 1/	
Crinea) =	4	₩.	
Kuban-Maikop Grozzy Daghostan	23,075	23,800	13,650	19,200	2,500 2,350	2, 350 2, 250	800 1,350	21,350
South Georgian Baku			1		21,400	22,150	12,500	
Soviet Caucasus Area		ļ			26,250	26,750	14,550	
Volga Ural Volga-Ural Kema Second Baku Area	The state of the s	And a management of the second	· Committee of the comm	Andrew Company for Manager	1,850 2/			
Pechora Sakhalin	2,825 4	2,950 4/	4,925 <u>4</u> /	8, 875 <u>h</u>	2/3/	2/ 3/	<u>2/</u> 750	10,750 3/
Emba Turkmen Southeastern Central Asia Soviet Central Asia Area	The second secon	Company of the Compan	The report of the control of the con	·	700 475 200 1,375	775 600 300 1,675	900 850 1,250 3,000	Section 1
Total USSR Area	25, 900 14	26 750 10	1 7 5 575 1.5	20 075 1	/ 29,550 3/	To Ben 7/	2,000	

^{2/} Unta not broken down for areas.
* Footnotes for Table 3 follow on p. 15.

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TABLE 3. Estimates and Records of Natural Petroleum Productions USSR Areas (cont'd)

	RISPERENC		REFGRE	INE STEE	Thousand Reference	
David and Automatical States	Grude Petrol	out. Only (?)	Cyade Patro	Leum Only (1)	Grude Patro	
Regions and Other Areas	19.7	1957	1960	1945	1940	1945
Carpathian (Western Ukraine)	* */		.,			,
Eastern Ukraine (Summy-Rommy)	ē/	1 3/	-,		₩,	SI,
Ukraine SSR Area	502 J/	ion 1/	100	200 200	100 F	2/ 400 1
			1 100	· 500	1/ 1/	400 1
Srimea	3/	1/	22.7	047	±	1/
	2"	4	23/	752	İ	
Kuban-Maikep	1,42)	160	n i		5 100	1.00
Greany	2,729	908.5	1 - 1 our 12 /	1,90) 11/	- 5,100	
Daghastan	1.75	550	h,900 21/	1970)	None	1,300
South Georgian	9/	9/	Negligible	35	,21 ,800	350
Sek u	21,370 9/	7200 9/				12,500
Soviet Caucasus Area	23,370 9/	17,450	22,000 26,900	11,000	56,900	14, 250
Volga	-/				9	i
Ural	2/	= 4	250	1,250	a/	<u>s/</u>
Volga-Ural	3/	2	1,500 51/	1,300 21/	<u>a/</u>	<i>5/</i>
Kama	a/ a/	**/	1,500 21/ 1,750 25/	1,300 21,/ 2,550 25/	<u>a</u> /	e/
Second Baku Area	1,003	4/ 8/ 8/ 7/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/	1,850 25/	100	<u>a</u> /	₽/
	2,000	لأزاراه ودا	1,920 55/	2,650 25/	a/ a/ 1,910 2/	2,885 2)
Perhora	199	150			•	
oskhalin	355 10/	350	Unknown	300	2/ 457	2 <i>]</i> 900
	1 22	320	460	1,000	457	900
Emba .	484	1,070	102.33 /	700 SI 1		
Turkmen	725	1,050	697 14/ 580	700 114/ 600	690	1,000
Southeastern Central 4sta	190	530			578	650
Soviet Central Asia Area	190 1,326	2,650	260 15/ 1,537	615 15/	5/19	375 2,025
	2,700	-, -, -, -, -, -, -, -, -, -, -, -, -, -	1,531	1,915	1,517	2,025
Potal USSR Area	29,092 1/10/	26,000 h/	32,217,30/	19,400 29/	31,184 4/	20,460 4

a/ Data not broken down for greas.

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TABLE 3. Estimates and Records of Natural Petroleum Productions USSR Areas (cont 9 d)

							Thousand	Metric Tons
		ERENCE k(14)		FERENCE k(18)	"PLAN"	"PL#N"	FINAL COR	
	Cyude P	etroleum Onl	y (?) Crue	le Petroleum Only		Crude Goal	Crude Petro	leum Only
Regions and Other Areas	1940	1945	1950	1950	1950 22/	1950 21/	1939 16/	1950
Carpathian (Western Ukraine) Eastern Ukraine (Summy-Rommy) Ukraine SSR Area	#/ #00 1/5/	<u>a/</u> a/ 400 <u>1/5</u> /	#/ Roo <u>1</u> /5/	330	a/ 325	a/ a/ 325	$\begin{array}{r} 300 \ 17/\\ \frac{1}{301} \ 17/\\ \hline \end{array}$	305 25 330
Crimes	1/	1/	1/	ゾ	2.3/		1	15 1/
Kuban-Maikop Grosry Paghestan South Georgian Baku - Soviet Caucasus Area	21,800 26,900	2,100 <u>6/</u> 6/ 13,300 13,600	6/ 6/ 15,600 20,600	1,500 1,800 500 120 17,000 20,920	11.0 17.000 21.950	5,310 <u>11</u> / 110 17,600 22,120 <u>13</u> /	2,171 2,164 196 60 21,018 25,909	2,120 2,015 925 115 25,150 20,655
Volga-Ural Volga-Ural Kama Second Daku Area	3,800 1/8/	₹.600 F\8\		10,600 19/	3,000 1,000 21/ 7,000 25/ 315 7,315 25/	-9,190 12/	178 1,594 1,772 80 1,852	11,200 325 11,525
Pachora Sakhalin	=	2/	\$/	1,200	2,000		96 473	1,80 820
Emba Turkmen Sontheastern Central Agia Soviet C _m ntral Agia A ₇ ea	,	ALL THE PLANT SERVICE STREET TO THE PLANT SERVICE STREET		1,360 3,250 1,200 3,750	1,200 1h/ 1,10h 1,206 15/ 3,510	1,200 <u>14/</u> 1,104 1,206 <u>15/</u> 3,510	702 473 201 1,376	1,220 1,200 1,255 3,675
Total DSSN Area	31,100 4/	19,400 4/	37,906 4/	37,600	35,400 29/	35,445 4/	30,008 <u>h</u> /	37,500 1/

a/ Data not broken down by areas,

TABLE 3. Estimates and Record: of Natural Petroleum Productions USSR Areas

· Per		- I- ((Cont od)				Thousar.	· morali
			rences j(7	and j				73 / 1 - 1
		Crude Petr	oleum Only		Total with		Natural Ca	
Regions and Other Areas	1939	1.240	1945	151-6	1939	1940	797c	1548
Eastern Ukraine	a/	a/	a/	a/	#/ ₂	a/	a/	2/
Crimes	a/	2/	a /	2/	21	£/	2/	4/
Central Southern Area	a/ a/ a/	<u>a/</u> a/	a/ a/	*	±// <u>a</u> /	a/ a/	a/ a/	e/ e/
Southern RSFSR Regions	۵/	al	a/	a/	a/	a/	a/	a/
Northern-Eastern RSFSR Regions	2/	a/	2/	a) al a	4/	4/	1 3/	#/ #/
Total RSFSR Area	4) 4)	-a/ -a/	a a	E /	a/ a/	a/ a/	a)	£/
Second Baku Area	e/	a/	a/	2/	1,850 2/	1,675 2/	2,500 2/	8/
Pechara	a/	ā/	ā/	ē/	2/	2/ =	750	2/
Sakhalin	a/	<u>a</u> /	<u>a</u> /	2/	2/ 5/ 1,375 3,225 3/	3/	750	a/ a/
Soviet Central Asia Area	a,/	A/	<u>a</u> /	3/	1.375	1,675 3,350 3/	3,000	3
Eastern Regions	हैं। हैं। 2,575 है।	a/ a/ a/ 2,950 h/	型/ 型/ 型/ 型/ 14。925 <u>L</u> /	8,975 11/	3,225 3/	3,350 3/	6,250 4/	10,750 3/
Uzbek SSR Area	/ء	a/	əf	a/	a/	a/	2/	7/
Kirghia SSR Agen	n/	a/	a/	3/	5/	8/	3/a/	8/
Titdznik SSR Area	a) a)	a) a)	2/	a) a) a)	200	#/ #/ 301	1,250	
Southeastern Central Asia	₹ .	ā/	2	1 1	200	300	1,250	2
Ukraine SSR Area	0/	a/	4/	L =/	75 1/	350 1/	350 1/	21,550
Crimea	3/	a/ a/ a/	a /,	1	26,250 26,325	. 1/	1 3/	4/
Soviet Causasus Area	T/	1/	24/	b a/	26,250	26,750	14,850	2/
Western-Southern Regions	23,075	23,800	13,550	19,200	26,325	27,100	15,000	21,350
Eastern Regions	2,825 L/	2,950 b/	4,925 4/	8,875 4	3,225 3/	<u>3,350</u> <u>3</u> /	6,250 lv/	10,750 3/
Total MSSR Area	25, 900 1./	26.750 h/	18,575 1/	28 .075 L	29,550 3/	30.450 3/	21,250 4/	32,100 3/

gf bata not broken down for areas.

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TABLE 3. Estimates and Records of Natural Petroleum Production: USSR Areas (cont*d)

					Thousand I	letric Tons
The state of the s	REFERENCE		REFERENC		Reference	4(5)
	Crude Patrole	sum Only (?)	Gruda Petrole		Crude Petrol	leum Only
Regions and Other Areas	1957	1947	1940	1945	1940	1945
Eastern Ukraine Crimma Central Southern Area	a/ a/		u/ u/ n/	a/ a/	a/ a/	a/ a/
Southern RSFSR Regions Northern-Eastern RSFSR Regions Total RSFSR Area	a/ a/ a/	<u>a/</u>	h,900 26/ 2,310 32/ 7,210 32/	1,900 <u>26/</u> 3,750 <u>27/</u> 5,650 <u>28</u> /	요/ a/ a/	3/4
Second Baku Area Pechora Sakhalin Soviet Contral Acia Area Eastern Regions	1,003 1.99 355 <u>10/</u> 1,326 2,863 10/	5,100 150 550 2,650 8,650	1,850 <u>25/</u> Unknown 1,60 <u>3,537</u> 3,847 <u>33</u> /	2,650 <u>25/</u> 100 1,000 1,915 5,665 <u>25/</u>	1,910 2/ 2/ 257 2,517 3,884	2,885 2/ 2/ 50C 2,025 5,810
Uzbek SSR Area Kirghiz SSR Area Tadzhik SSR Area Southeastern Central Asia	a/ a/ a/ 390	a/ a/ a/ 530	200 30 30 260 <u>15</u> /	<u>912</u> 72\ 72 22 212	B/ B/ 249	a/ a
Ukraine SSR Area Crimea Soviet Czucasus Area Wastern-Southern Regions	502 <u>1</u> / 1/ 25,707 26,209	100 1/ 1/ 17 150 17,550	400 23/ 26,900 27,300	200 23/ 13,535 13,735	400 <u>1</u> / 26,500 27,300	400 1/ 1/ 14,250 11,650
Eastern Regions	2,88) 10/	8,450	3,847 33/	5,665 25/	3,884	5,810
Total USSR Areas	29,902 1/20/	26,000 L/	31,147 30/	19,400 29/	31,184 4/	20,460 4/

a/ Data not broken down for areas,

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TABLE 3. Estimates and Records of Natural Petr leum Productions USSR Areas (contd⁰)

				onou)				
	REP	EREMOS k(14)		REFERENCE k/(8)	"FLAN"	"PLAN"	FINAL COR	d Metric Tor
Regions and Other Areas	Crude F	Section Onl	y (2) 1950	Crude Petroleum Only 1950	0-ud- Goal 1950 22/		Crude Petro 1939 16/	lsum Only
Egstern Ukraine Crimes Central Southern Asea	4/	8/ 8/ 2/	#/ #/	4	a/ a/	≥/ ≥/ ≥/	1 -2	35
Southern RSFSR Regions Northern-Eastern RSFSR Regions Total RSFSR Area	4	4/ 4/	2/	3,800 20/ 12,600 16,400 20/	4,840 26/ 9,615 27/ 14,455 28/	5,310 11 9,190 13 14,500	1,832 2,121 7,253	18,230 12,825 2,105
Second Baku Area Pachera Sakhalin Soviet Central Asia Area Bastern Regions	2/ 2/ 2/ 2/ 3/800 2/8/	a/ a/ a/ 5,600 y/3/	2/ 2/ 2/ 16,700 <u>u</u>	132,400 1,200 3,750 16,350	7,315 <u>25/</u> 300 2,000 3,510 13,125 <u>25/</u>	9,190 12/	1,852	1,525 480 820 3,675 16,500
Usbek SSR Area Kinghis SSR Area Tadahik SSR Area Southeastern Central Asia	a/ a/ a/	#/ #/ #/	a)	#/ #/ 3/ 3,200	1,066 80 60 1,206 15/	1,066 80 60 1,206 15/	2/ 2/ 2/ 201	1,25
Ukraine SSR Ares Crimea Soviet Caucasus Area Western-Southern Regions	100 1/5/ 1/- 26,900 27,300 7/	13,500	800 <u>1</u> / 20,400 21,200 <u>7</u> /	20,920	325 23/ 21,950 22,275 23/)25 22,420 22,745	301 17/ 1 17/ 25,909 26,211	330 15 20,655 21,000
Sastern Regions	3,800 4/ 8/	<u>5,600 b/ 8</u> /	16,700 <u>L</u>	/8/ <u>16,150</u>	13,125 25/	12,700	<u> 3,797</u>	16,500
Total USSR Areas	71,100 1/	19,100 4/	37,900 4	37,600	35,400 29/	35,445 4/	30,008 4/	37,500 4/

a/ Data not broken down for areas.

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Footnotes for Table 3

- 1/ Ukraine SSR value probably includes Crimes.
- Second Baku value probably includes Fechore.
- 2/ Sakhalan production excluded.
- 4/ Sakhalin production included.
- 5/ Ukraits SSR value includes Feshore.
- 6/ Kuban-Maikop and Grozny value probably includes Daghestan and South Georgian.
- ?/ Fechors production included.
- 8/ Pechera production excluded.
- 9/ Beku value probably includes South Georgian.
- 10/ Excludes Japanes Sakhalin concessions.
- 11/ Southern ESFSR regions:
- 12/ Northern-Esstern RSFSR regions.
- 13/ Orimen included.
- 14 Includes minor Sazak area production in Southeastern Central Asia.
- 15 Excluses pipor Razak area production.
- 16/ Published statistics with minor adjustments for region breakdowns. (Cf. References
- 11/ Estimate based upon correlation of various data.
- 18/ Intelligence estimate of region break-down.
- 19/ Value for Pechors and Kema combined.
- 20/ Probably exclusive of Crimee.
- 21/ Break-down assumed for present purposes.
- 22/ Brok-down shown in Reference a(8).
- 23/ Smill production in Crimea Region apparently neglected.
- Law Teferentially restricted to deshir, excluding Tatar.
- 25/ Tatar product on not included by direct inference.
- 26/ Kuban-Weikep, Grozny, and Daghestan Regions; Orimea production apparently neglected.
- 27/ Sakhalin, Pechora, and Second Baku areas, but with Later production excluded by inference.
- 28/ Crimen and later area productions not specifically included.
- 29/ Specifically includes production from Sakhalin, but not from Crimen and Tatar areas.
 30/ Specifically includes production from Sakhalin, but not from Grimen, Inter, and Pechora news.
- 31 Sakhalin and Second Bekt areas except for inferential exclusion of Tetar production; Pechana not included.
- 12/ Crimes, Teter, and Pechora productions not specifically included.
- 13/ Tatar and Pechora productions not specifically included.
- 34/ Reference specified natural gas liquids but may include associated natural gas.

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3. Appointed List of Selected References.

ROTE: This list excludes intelligence references on oil processing and the related subjects of petroleum chemistry except where certain source data on these phases of the Soviet petroleum industry are listed either incidentially or for systematic grouping. The reference list is continued for processing and petroleum chemistry in Appendix B. Part 5 of Paper C. Refining of Petroleum in the USSE. References are muitted to prior estimates and intelligence analyses having origin in the CIA and similar governmental agencies, except where the documents are especially pertinent to the present study. Except for a few items considered to be especially important, the selections are further restricted to source data available in English. Numerous and valuable additional references are, however, often designated in the documents selected for listing. Specific note is made in the annotations when the additional reference listings are considered to be important.

a. General Data on Soviet Petroleum Industry and Production.

(1) New Oil Regions in the USSR and Their Future Fevelopment. To	echnical book in
Russian, published 1926. Contains studies and maps on the Crimea, Con	loasus, Turkmen,
Fergena, Penhora, and sub-commercial Astrakhan oil productive areas.	
13 June 1951, Restricted.	25X1A2G
(2) The Crude Oil Economy in the USR. Secret- 62 pp. Intelliger	we translation
of a comprehensive and detailed study by Data	25X' through 1944.
Includes some data that appear to be inaccurate.	

(3) Petroleum Resources of the Union of Soviet Secialist Republics. Intelligence report prepared jointly by Petroleum Administration for Wer, Foreign Divisions; Office of Strategic Services, Petroleum Division; Foreign Economic Administration, Petroleum Division; Office of the Quartermaster Seneral, Fuels and Lubricants Division. Confidential. Provides complete coverage, statistical tables, maps. 232 pp. World War II report.

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- (4) Sovetskie Neft.). Recently published technical book in Russian on Soviet oil. Contains data on USSR oil-producing areas and districts, roughly corresponding to the rugions and fields as ordinarily defined for intelligence study. Cf. Nave.

 Intelligence 193-67. C IA 117117, 19 August 1947, Restricted.
- American intessy Despatch #20, 28 June 1945. Confidential. Comprehensive coverage of the Soviet petroleum production status then apparent, correlated with details of the past by oil productive regions. Includes estimates of the 1940 and 1945 productions by regions, with extensive bibliographical references to official Soviet publications. 13 pp.
- (6) The Current Petroleum Situation in the USSR. Department of State, Offic, of Research and Intelligence, No. 3604, 7 June 1946. Confidential. Contains extensive bibliographical references. 46 pp.
 - (7) (III) Morrobly Review: Soviet Oil. December 1946. Confidential. 4 pp.
- (8) ORI: 4/1. Petroleum Resources within the USSR. 16 June 1927. Secret.
 18 pp. with mat.
- (9) Army R-287-48: CIA 208702. 12 April 1948. Confidential. Contains estimates of known USSR cil reserves; describes Soviet petroleum industry and breakdown in o trade unions; describes long-range plans and the currently fallacious propaganda formulabed by the Soviets with respect to this industry. Lays special stress on the Caucasus regions. 7 pp. Source: Soviet Caucasian refugee.
- Secret. English translation of a technical paper in Russian, Fetroleum in the USR.

 Comprehensive coverage; contains statical and technical dotails. Accuracy of data questionable in some instances.

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17 pp. Cf. also Naval Int	telligence 208-5-48. ClA 221138, 8 June 1948, Secret.
(11) 1 Pece	ember 1948, Secret. USSR Fetrolerm Extraction and Refix ing.
Abstracts from captured Ge	erman army reports. 9 pp.
(12) <u>Fe Rpt. No. J-39</u>	Al. Soviet 0:1 Production. ID report 29 March 1949.
Confidential, 7 pp.	25X1A2G
(13)	25X1
h (2) (g) _o	, a
(14) <u>C IA 324702</u> . May	1949. Secret. Single page table; extract from War Depa t-
ment document. Shows pred	uction estimates for USSR for 1940, 1945 - 1950. Covers
various conmodities, etc.	Includes production data for petroleum, petroleum pro ucts.
natural gas.	
(15) 6	June 1949. Confidential/US Officials Only, USSR 8
Crude Oil Freduction. Inf	ormation of lete May 1949. 1 pg.
(16) D.D. MOORE, R. T	. LUND, The Soviet Petroleum Industry Project Rand
R M-418, 31 Jenuary 1950.	Secret. 48 pp. with meps; charts; diagrams; tables;
list of references.	
(17) Petroleum-Green (Gold. Recently published technical book in German dealing
with the petroleum industr	y in the Soviet Bloc. Data evaluated as seriously in error
in some instances. Cf. Ret	vel Intelligence 52-W-50, CIA 432404, 17 February 1950.

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- brief row w of the Soviet potrolour industry in the post to. 33 (21 Decarbor 1950). with a governighal corrected and activate of the correct st two. The latter appraisal and estimate some to offer dittle or v lar for intelligence and ress, and classified intilligance does not always confirs the det included. The report is based upon fewtous vo post diod and mischi and main lo" and lile to to an esta (the latt r is the institution at broard University, est lised in lobe norms of a Carnagio Comparation part for the smally of lovint economical report five records statistics and includes on estimate of the I'M, entile productions by regions, with 26 million other tone asti at ad for the total 1047 - 10. Generalized unclytical data re s cum for a colir saind enude oil. Det ile analytical data de incheded for a far salacted ereca seemla, and those era respondity con ist at with cours housive date. From many information is provided with respect to the consumption rottom, the current moductions of crude and natural gas, and the status of rathining. It is noted to at the report includes an esticic of 17.5 - 13.0 will in tric tons per your for the present "notion learned in " con city. similar to that has been independently derived in intellimnce and was for the town The conversion simplify, arising is of 1970.
 - (21) L'Ind strie Potrelion del U. 1750. Georet. Inglish termilation

(22) Soylet Anniversary Speech by Beriya. English translation from Russian, Moscow, Soviet Nome Service, 6 November 1951, 1600 GMT-L (Relay from the Bolshot Theater), released in <u>USSR Home Service</u>, 7 November 1951, pp. AA1-AA27, Confidential. Cives the following comments on the Soviet petroleum industry: "Even more considerable successes have been achieved in our oil industry. For a number of years past the annual increase in our oil output has amounted to 4.5 million tons. In the current year the oil extraction plan will be exceeded. As a result of the implementation of a large program of oil prospecting, valuable oil sources have been discovered in many areas and prospected oil reserves have grown considerably. Work for the building and expanding of oil refineries has developed on a large scale. New works equipped with first class Soviet technique which began to work this year, can by themselves process six million tons of oil yearly. One can say with confidence that the task set by Comrade Stalin to bring the production of oil up to 60 million tons a year vill be fulfilled ahead of schedule." The above comments on refinery construction are considered to be so confused, ambiguous, and obscure that realistic interpretation is scarcely possible. The text of Beriya's speech appeared in Izvestiva, 7 November 1951.

(23) CIA 77.9524; Air Technical Intelligence Center Translation F-TS-7493-RS.

T. I. 358, M. I. F. Released 2 February 1952. Unclassified. Translation (28 pp.)

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M. I. VARENTSOV: Prospecting, Exploration, and Exploitation of Petroleum Deposits

During the Third Stelin Five-Year Plan. Includes condensed and presumebly authoric notes on the separate oilfields by then productive in the USSR oil regions; mostly data with the usual quality of propaganda, relating to the progress and future plans then current with respect to exploration and production.

- issues of the US trade journal now called World Oil and formerly Oil Weekly.

 In the first three issues, useful cutlines are provided for the regional USSR oil supportations and productions prior to World War II. The first four issues include geographic maps of the USSR oil productive regions, together with brief summaries of Soviet activities supposed to be prevailable in the petroleum industry. In the maps and summaries of the latter types, however, there appears to be a mixture of fact, hearsay, and error. The latter three special numbers of this series are designated as International Operations Issues. With respect to the USSR areas in the 1950 and 1951 numbers, maps are omitted and little discussion is included.
 - (a) 1946 World Oil Atlas The Oil Weekly, Section 2, 20 May 1946.
 - (b) 1947 World Oil Atlas. The Oil Westly, Section 2, 30 June 1947.
 - (e) 1948 World Oil Atlas. World Oil, Section 2, July 1948.
 - (d) International Operations Issue. World 011, Vol. 129, No. 4, 15 July 1949.
 - (a) International Operations Issue. World Oil, Vol 131, No. 2, 15 July 1950.
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Russia, Bulletin of American Association of Petroleum Geologists, Vol 31, No. 8
(August 1947), pp. 1372-1383. Includes extensive bibliography. Cf.
GIA 169151. 17 March 1948, Restricted.
(2) F. JULIUS FORS, Petroliferous Provinces of USSR. Bulletin of American
Association of Petroleum Geologists, Vol. 32, No. 3 (March 1948), pp. 317-350.
A comprehensive and condensed outline of the known USSR petroleum geology through
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d. Additional General and Petroleus Geological Studies of the USSR. 25X1
T.T. CONTA, N.A. SHUEMBERGER, Oll Fields of Middle Asia.
English translation of Russian geological article in Oil Economics, No. 11 (1934),
Confidential. 14 pp.

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25X1	(3) CIA	164533. Restricted. Abstract translations of 9 Russian.
	geological parers on of	l and gas areas, published from 1945 to 1947. 3 pp.
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	A serios of intell	igence reports (i.e., enclosures) relating to oil production
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	have from 20 to 45 pp.	of text, and usually include maps and tables. Classificat on
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25X1		Survey of the Soviet Oil Industry.
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The Oilfields of Ukraine (Ukrneft).

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San Francisco Ran Frant

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(3) CIA 242312. Foreign Documents Branch Translation 180. Petroleum Industry
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gence coverage of the industry in the area, 66 pp.

	(4) CIA 525423, USSR: Oil Production Air Incelligence	25X1
	Information Report 49-48-2-32. 1 October 1950. Confidential.	25X1
25X1		
	Single page. Cf. Reference f(8).	
25X1	(5) CIAC 1717. 2 January 1951, Secret/US Officials Only.	
-	Enclusre: Maps supposed to show correct information on the Kuban-Maikop and cen	ta n
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		_
25X1		5X1
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	tial. English translation of Russian article by M. MKRTCHYAN in Planovoye	
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•	(7) <u>CIA 329031</u> .	25X1
•	contains 6 pp. of specific notes on the Baku oilfields. Scoret. Probably 1948.	

(8) CIA 525424. USSR. Oil Production, Baku. Air Intelligence Information

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•	USSR. 11 pp.
	(15) Developments at Tuymazy, USSR Ural Oil Producing Region.

"Treasure Island" abstract of official Soviet publication; articles in

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February 1951. 2 pp. Restricted.

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The Main Ad	ministration of the	Northern Sea Route; symp	osium No. 1, 1945,
and symposi	um No. 2, 1947, <u>Hed</u>	ra Arktika.	
(2) <u>c</u> 1	<u>A 292435</u> . USSR: P	hysical Geography and Geo	logical Data for the
Khatanga Ri	ver-Cape Nordvik Oi	1 Prospect Region. 19 Ja	mary 1949. Secret.
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Peninsula.	2 -	4-49. USSR: Petroleum Res	earch in Arctic (Cape
Peninaula.	IA 309157; Aray R-39	4-49. USSR: Petroleum Res Secret. 8 pp. of text,	
Peninsula. (3) C	(A 309157; Aray R-39		
Peninsula. (3) Control Nordvik Are	(A 309157; Aray R-39	Secret. 8 pp. of text,	giving accounts of e
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(5) CIA 556587; USSR: The Nordwik Oil Expedition. State Despatch, Frankfurt

2228, 15 January 1951. Secret. Scientific intelligence report, elaborating upon

- Reference (g) (3), same source. 26 pp. of text; maps, charts, tables.
- (6) State Despatch, Frankfurt 2329. 24 January 1951. Secret. Oil at Urt'

 Port. Reporting lack of commercial oil deposits in the cil prospect region in
 the lower Yenisei River Valley, in western Siberia at the Arctic Ocean to the
 west of the Taimyr Peningula.
- Soviet Geological Recommaisance Expeditions. Outlines the standardized organization and function pattern adopted by the Soviets in typical expeditions.

 Typical expeditions were those to the Yenisei River and Khatanga Bay-Cape Nordvi: regions in northwestern Siberia; and in central eastern Siberia, to the oil prospect region in the central drainage basin of the Lena River, extending from the valley of the Vilyei River tributary on the west, through Yekutsk on the Lena River in the central portion, to Ust: Maya in the valley of the Aldan River tributary on the cast. 4 pp. USSR source. (Army, EUCM 7707 ECIC ID EQ RS-324-50.)

h. Fragmentary Intelligence on Soviet Cilfields: Selected Typical Reports.

- (1) Army Reports; Mostly Data from Refugees, DP's, FW's.
- (a) ID-ECIC, ICF 2635. July 1948. Confidential. Oktyabrak oilfields in Ural region. 2-sheet card and location map.
- (b) ID-ECIC, ICF 2647, November 1948. Confidential. Oktyabrek-Tuimmzy cilfields. 2-sheet card and location map.
- (c) 10-ECIC, ICF 5307. November 1948. Confidential. Oktyabrsk cilfields.
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 - (4) ID-ECIC, ICF 5308. September 1948. Confidential, Oktyabrak oilFiells.

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Single sheet cardo

- (e) <u>ID-ECIC</u>, <u>ICF 8903</u>. August 1949. Confidential. Saratow cil(?) and natural gas fields. 3-sheet card.
- (f) <u>USFA</u>, ID HQ VI-1023; CI: 321831. November 1948. Confidential.

 Oil deposits in the Volga region. 2-sheet card. Data obtained via the US Forues in Austria (USFA).
- (g) FEC, ID HQ 549; CIA 323920, Information of May 1947. Secret.

 Crude oil reported from Petropavicsk on the Kamchatka Peninsula. Data obtained via the Far East Command (FEC). Single sheet card.
- (h) FEC. ID HQ 548; CIA 324418. Information of March 1947. Secret.

 Crude oil deposit reported at Petropavlosk on the Kamchatka Peninsula. Single sheet card.
- (i) USFA, ID HQ V-1013; CIA 333258. January 1949. Confidential. Ollf eld in South Georgian region. S-sheet card and location map.
- (j) <u>USFA. ID HQ R-361-49</u>; <u>CIA 341543</u>, 15 July 1949, Confidential, Oilfield in Kuban-Maikop region, 3 pp.
- (k) <u>USFA, ID HQ R-416-49</u>; <u>CIA 350627.</u> 12 August 1949. Confidential, Data on city of Grozny with notes on Grozny cilfields and refineries. 5 pp. and location maps.
- (1) USFA, ID HQ I=1124; CIA 352577. 12 July 1949, Confidential.

 Oilfield in Pechora region. Single sheet card.
- (m) <u>USFA. 1D NO XI-1005; CIA 354854</u>. 20 July 1949. Confidential.

 Drilling for oil but no strikes reported near Dudinka on the Yenisei. Single sheet card.

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- (n) EUCOM 7707 ECIC RT-1151-49 (ICF 2323-2333): CI * 354867. 5 September 1949.

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 in the Estonian area. 11 sheets of cards.
- (a) USFA, ID HO X(-1008; CIA 354495, 20 July 1949; Confidential. Oilfield reported at Krasnoyarsk in central southern Siberia, west of Lake Baikal. (No confirmation or direct evidence is actually available for any commercial crude oil production anywhere in Siberia.) Single sheet card.
- (p) FEC, ID HQ 198C; C(A 367418. Information of October 1945. Secret.

 Oilfield near Andizhan in Fergana area, Soviet Central Asia. Single sheet card.

 For other reports on the Andizhan oil productive area, 3f. FEC. ID HQ 1975

 (July 1948 data), 1978 (November 1946 data), 1979 (July 1948 data), 1981 (May 1947 data).
- (q) USFA, ID HQ R-515-49; CIA 374075. 21 October 1949. Confidential.

 Data on city of Oktabrsk, located about 25 miles southwest of Tuimaza in the Ural region. Contains notes on cilfield in area. 5 pp.
- (r) USFA, ID HQ III-1185; CIA 393076. 4 July 1949. Confidential. Oil-field near Dashava in Carpathian region. 2-sheet card.
- (s) <u>USFA</u>, ID NQ R-504-50; CIA 489669. 14 July 1950. Confidential. Deta on city of Krasnokamsk in Kema region. Contains notes on oilfield and refining facilities in the area. 9 pp. including location maps.
- (t) EUCOM 7707 ECIC RT-720-50 (EI 526); CIA 496530. 21 July 1950. Confidential. Oktyabrsk-Tuimaza cilfields in Ural region. 4 pp. EI (Economic Intelligence Report).
 - (u) <u>ENICOM 7707 ECIC RT-723-50 (EI 528)</u>; <u>CIA 505902</u>. 18 July 1950.

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- (v) FUCON 7707 ECIC RT-1081-50 (RI 574); CIA 537843, 11 October 1950. Confidential. Yablonka oilfield in Volga region. 6 pp. including location map.
- (w) EUCOM 7707 ECIC RT-1)52-50 (EI 598); CIA 545382. 2 November 1950.
 Confidential. Oktyabrsk cil area. Single sheet card and 2 pp. of report.
- (x) EUCOM 7707 ECIC RT-;162-50 (EI 602); CIA 555654. 8 November 1950.
 Confidential. Oktyabrsk cilfielt in Ural region. 4 pp.
- (y) EUCOM 7707 ECIC RU-1172-50 (EI 603); CIA 555790. 10 November 1950.
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- (z) FEC, ID HO 10622; CIA 559860. 18 July 1949. Secret. Yelabuga oilfield in Tatar, Ural region. Single sheet card.
- (a¹) <u>USFA, ID HQ (MIS) V-1227; CIA 568332</u>. June 1950, Confidential.
 Oilfield in South Georgian region. 2-sheet card and location map.
- (bl) <u>USFA, ID HQ R=1217-50; CIA 569950.</u> 29 December 1950. Confidential.

 Note on collection of new bil pipeline on Caspian shore, parallel to oil pipeline then under repair, Baku-Malhachkale. Single sheet card.
- (cl) FEC, ID R. 14779; CIA 619584. 6 October 1950. Secret. Oilfield in Fergana area. 3 pp.
- d1) FEC, ID HQ 4264; CIA 621996. 5 September 1950. Secret. Okha cilfield area on Sachalin. 2-sheet card.
- (e¹) FEC, ID HC 14256; CIA 622763. 5 September 1950. Secret. East Ekhabi cilfield on Sakhalin. 2-sheet card.

- (F¹) FEC. ID HQ 14392; CIA 622779. 21 August 1950. Secret. Okha oilfield area on Sakhalin. 3-sheet card and sketch of technical apparatus.
- (g¹) FEC, ID NO 15781; CIA 622843, 17 August 1950. Secret. Okha obliki darea on Sakhalin. 3-sheet card.
- (h¹) FEC. 1D Hr 15782; CIA 622844. 17 August 1950. Secret. Ratengli oilfield area on Sakhalin. 3-sheet card.
- (il) FEC, ID El 15585; CIA 674798, 14 December 1950, Secret, Ekhabi oilfield area on Sakhalin, 2-sheet card.
- (j¹) <u>USFA, ID HQ (MIS) VIII=1365;</u> <u>CIA 625096</u>, January 1950, Confidential, Pilyugino cilfield opened 1947 near Buguruslan, Volga region, Single sheet card,
- (k1) USFA, ID HQ (MIS) VIII-1362; CIA 625098. Jenuary 1950. Confidential.

 Buguruslan cilfield area, Volga region. 2-sheet card.
- (12) USFA, IS HQ (MIS) VIII-1370; CIA B 279. June 1950. Confidential.

 Buguruslan-Fochvistrana cilfield, Volga region. 10-sheet card.
- (m^J) FEC, ID HQ 14672; CIA 526437. 4 October 1950. Secret. Oilfield near Grunch-Mazar, Urbek, Southeastern Soviet Central Asia region. 2-sheet card.
- (n¹)<u>FEC, ID HQ 16960; CIA 628525</u>, 24 July 1950. Secret. Pokhvistnew cilfield aroa near Buguruslan, Volga region. 2-sheet card.
- (o¹) <u>USFA, ID HQ (MIS) VIII-1369</u>; <u>CIA 630084</u>, 18 February 1950, Confliential, Buguruslan oilfield area, Volga region, 2-sheet card, location sketch,
- (p¹) USFA, ID HO (MIS) VIII-1367; CIA 632232. 7 July 1950. Confidential.

 Buguruslan oilfield area, Volga region. 3-sheet card.
- (q¹) USFA, ID H2 (MIS) VIII-1368; CIA 632329. 10 February 1950.

 Confidential. Large oilfield near Euguruslan in Volga region, 12-sheet card and location sketch.

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	(r) FEC, ID HQ 1662C; CIA 641217, 12 June 1950, Secret. Ekhabi mil
	field area on Sathalin. Single sheet card.
	Targue Cartes
	(8) FEG, ID HQ 16596; CIA 648777, 30 August 1950. Secret. Okha cil-
•	field area on Sakhalin, 2-sheet cerd.
•	(2) Other Reports with Fragmentary Date.
25X1	(a CIA 150360. 29 January 1948. Secret/Us Officials Only.
	Baku: data on oilfields, refineries, end natural gas. 2 pp.
25X1	(b) CIA 154871. 10 February 1968. Secret/US Officials only,
	Baku oilfields.1 pg.
	(c) Haval Intelligence 3-S-48; CIA 174927. 12 March 1948. Secret
	Petroleum exploitation on Sakhaline 2 pp. 25X1
25X1	(d) 13 June 1949, Secret/
	Petroleum exploitation near Nebit-Dag, Turkmen region. Single sheet enclosure. 25X1
•	Data probably much in error.
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25X1	(e) CIA 221080. 19 July 1948. Secret/US Officials Only.
	Oilfield exploitation in the Emba region. 1 pg.
	(f) Mayal Intelligence 361-S-49, 16 August 1949, Secret, pata on new
	Oktoberstadt (Second Baku) cil productive area, 1 pg.
25X1	(g) 25 November 1949. Confidential/US Officials Only, 25X1
	Buzovny cilfield in Baku region
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25X1	(h) 23 August 1950. Secret/US Officials Only. Oilfield
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in Oktyabrsk Area, Ural region. Alleges no refineries to exist at Oktyabrsk or Tuimazza. 2 pp., (i) Wringer 8-323-1049. 29 October 1950. Secret. Oilfields in South Georgian region with location skatch, 3 pp. (j) Naval Intelligence R-343-50; CIA 558000. 26 October 1950. Uncla sified 3 pp. Contains translation from Italian publication 11 Tempo, 12 September 1950; deals with Russian oilfields and their vulnerability to air attact. 1 March 1950. Secret/US Officials Only. Evidence of (k) New Interest in the Carpathian Oil Fields Near Shust. 1 pg. 10 May 1961. Confidential/ US Officials Only. (1)Petroleum Activities at Ukhta. 2 pp. with sketch of exploratory well. 14 May 1951. Confidential/ US Officials Only. Date on Carpathian region with sketch of Stary Sambor city area. 2 pp. 2 June 1951. Confidential/US Officials Only. Notes on test drilling for oil (and also oil shale)on the Dneiper River in the Eastern Ukraine region. 1 pg. Miscellaneous Notes en Soviet Petroleum Industry. (1)CIA 194190. USSR: War and Postwar Development of the Uil Industry, 7 May 1948. Restricted. Intelligence notes on the following: discoveries and exploitations of new oil and gas fields during World War II; certain trends in the productions of natural petroleum and natural gas; drilling technology and practice; certain trends in refining developments. Based upon extensive surveys

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	now in the Research and Development Department of a major 05 oil company.
25X1	(2) CIA 194192. USSR: Development of Fuel Resources. 7 May 1941.
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25X1	(3) CIA 134565, USSR: Petroleum Industry. 10 May 1948. Restricted.
	Text of Italian periodical article, translated from Italian into English: USER to
	Make Up 30 Lost Years; Russian Geologists and Geophysicists in Search of 20 Billi m
	Tons of Petroleum, II Quotidiano Eritreo, Asmara, Eritrea, 15 February 1948.
	Quotes figure for number of productive oilwells then exploited in the USSR, with
	this figure fairly compatible with values derived from Soviet sources. Gives
-	estimates of oil reserves that are merely indicative, and much more conservative han
•	more authentic data. Provides reasonably accurate data on realization of the Soviet
-30-	"State Plans" prior to 1948. Estimates the 1947 USSR petroleum production at 26.) million metric tons, a value compatible with what is assumed in prevailing non-
	Communist intelligence. Report also mentions a declaration of Marshal STALIN stating
	it to be vitally important for the USSR to attain the mark of 60 million metric tons,
	in the annual oil production by 1960. The probable reference is to Stalin's speech
	of 9 February 1946, containing an inference that 60 million metric tons of annual
	production should be the goal at least by the end of three more "Five Year Plans"
	from that date (1.e., by 1960). Cf. References u(20), k(2), 3 pp.
• *	25X1 (4 Soviet Petroleum Prospecting, 2 July 1951, Confidential/
*	US Officials Only. Single page of notes inferring
	high quality in Soviet techiques.

25X1	(2) USSR. Potroleum Industry. 28 January 1949. Secret.
•	Intelligence notes on the following aspects of this industry: general policy
	of solecting managing personnel; equipment quality and availability; technological
	and engineering developments in drilling; economic, functional, and technological
	factors in attaining the "State Plan" goals; prospecting, exploitation, productica,
	processing, and attendent technology in the Volga-Ural, Turkmen, and Fergana Vallay
	(Eastern Soviet Central Asia) oil regions. 4 pp.
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25X1	Cf. Reference 0 (10)(f)
25X1	(3) USSR: Estimate of Crude Oil Reserve Supply. 23 March
	1949. Confidential/US Officials Only. Single page. 25X1
25X1	(4) USSR: Attainment of Plan Goals, 30 March 1949, Confident al/
	US Officials only, Single page report, 25X1
25X1	(5) USSR: Chemical Research and Synthetic Fuel Administrations
İ	30 March 1949. Confidential/US Officials Only. 2 pp. of notes including statemen
	that only about ten perdent of the technical work done in the USSR is published.
25X1	
25X1	(6) USSR: Petroleum Chemistry. 31 March 1949. Confidential/
	US Officials Only, 2 pp. Series of notes pertaining to the production of chemical
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substances such as alcohols from petroleum. Makes reference to synthetic rabber
manufacture and the derivation of raw charge stocks from petroleum for that processing
Refers to thermal and catalytic cracking progress, and makes mention of the provelent
Soviet practice of using reduced crudes for thermal cracking charge. Contains
notes relative to synthetic fuel hydrogenation and the Soviet World War II application
of the ":yrolysis" process. Source:
(? USSR: Critical Analysis of Tetrolow: Toduction Figures
Which Appeared in the 26 lay 19-19.
Secret/03 Officials Only. Provides realistic and numerical estimates of exploita.
tion and productivity in the separate USSR oil regions. Based upon professional
Further correlated with a
comprehensive survey of official Coviet statements, in addition to the technical,
statistical, and general information published in a given list of official Soviet
reriodicals. These estimates are derived for animal productions from 1910 to 1940,
inclusive. Carlier total annual productions are also tabulated, beginning with 1913.
9 ppe
(3) USSR. Revised Estimate of Soviet Petroleum Production
(1.0., cr. heference j(7)), 25 August 1949, Secret/US Officials
Only. The prior estimates are in Unis report correlated with a much ore compre-
heneive survey of certain articles published in a long list of designated official
Soviet periodiculs. Also considered are additional data from other sources
as noted in the report. The resulting revised e timates appear to be generally
compatible with the productions assumed for these years in prevailing non-Communis:

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intelligence.	The report a	lso provide	rovides some data		refinery	installations.equi	
ment ranufactu	re, and funct	ional organ	izations	in the	e Poviet	petroleum	industr y .
15 pp.							

k. Data on the Fourth Five Year lan for the Soviet Petroleum Industry.

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- (1) CIA 285028. The Law on the Five-Year Plan for the Restoration and Development of the National Economy of the USSR, 1946-1950. Foreign Documents Franch Translation Lo. 15/40. 28 rebrurry 1949. Restricted. Complete text as published by Ogiz, Gospolitzdat, Moscow, 1946. 76 pp.
- (2) Special Supplement on the Fourth Five-Year Plan. Information Bulletin of the USER Embassy, Washington, D. C., June 1946. Contains the details of the "Ttate Tan' to Ler. mate in 1950. Shows the petroleum production goals projected for the constituent (i.e., Soviet Socialist) Republics containing the productive regions. Also contains extract of Marshal STALIN's speech of 9 February 1946, asserting 60 million tons of annual oil production to be the ultimate goal, by inference within the course of a third future "Five Year Plan" (i.e., by 1960).
- (3) <u>WOP Co. Survey of Foreign Tetroloum Literature</u>. 2-9 August 1946 Issue.

 <u>Sche Data on the Plannot Evolopment of the Dil and Chemical Industries of the USER</u>

 for the Coriod 1946-1950. Contributions by N. BAIBAKOV, Einister of the Oil Industry

 for the USER; N. A. VOZNESEESKII; A. PANOV, G. HOCYACHERKO, N. SHVERNIF and

 A. GORKIII for the Supreme Soviet of the USER. Translations from <u>Planevoe Khozyai. tvo</u>

 (Planned Economy), 1966, No. 2 (pp. 5-63, 100-112, 136-147) and No. 3 (pp. 12-19).

 Covers coal, petroloum, and synthetic oil. 4 pp.

(4) CIA 382066. Soviet Oil Production. ID report R-535-49, 18 November 19.9. Confidential. Translation of article, Oil in the Soviet Five Year Plan, published Tay 1949 (?) in Ze Pravdu, Caracas, Venezuela, this is a publication said to be anti-Communist. Contains estimates of regional crude productions for 1940 and 1945. 3 pp.

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(5) 12 October 1949. Secret. Petroleum Trusts Exceed Plen

But Sone Still Lag. Abstract translations of 7 technical articles published in

Russian periodicals. Baku fields are inferred to be the most backward in meeting the

Plan goal. 2 pp.

25X1

(C) 27 June 1950. Secret. Translation of article, Azerbaydzha.

'etroleum Industry Lags, published Bakinskiy Rabochiy, Mo. 79, 1950. 2 pp.

(7) CIA 583573. State Despatch, losecw 331. 1950 Seviet 011 Production.

30 December 1950. Restricted. Report of 3 pp. with special features as follows.

In Marshal FULGANIN's speech of 6 November 1950, the level of Seviet crude production in the first 10 menths of 1950 was stated to be 21 percent above the pre-war leve.

Applying 32 million metric tens as the 1940 crude production, the anticipated 1950 crude production would be 121 percent of that, or 37.5 million metric tens.

In Marshal FULGANIN's report to Stalin, published 24 December 1950, 2.2 million metric tens in excess of the 1950 "Plan" value were promised.

With the "Flan" figure at 35.4 million metric tens according to References k(1) and k(2) the 1950 crude production would result as 37.6 million metric tens.

Finally, Rulganin's speech brought out five points on the productivity status of the separate areas containing oil-bearing regions. First, these areas were mentioned

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as ones that had made rapid progress: Backir, Tatar, Kurbyshev, Kazak, Bubak.

Turkmen, and Sakalin. Second, these areas were said to have actually produced.

1949 the respective yields "planned" for them in 1950: Bashkir, Kurbyshev, Kubak.

Maikop, Grosny, and Turkmon. Third, these areas were declared to have been result.

Kuban-Markop, Grozny, and Mestern Ukraine. Fourth, the eastern regions were cred.

With 44 percent of the total 1950 USER production. Fifth, the Baku region was conspicuous due to lack of favorable mention. The eastern regions would therefore appear to have produced 16,5 million metric tons in 1950, or 44 percent of 37.5 who results are the report at hand notes that only 12.7 million metric tons was "planned" for them in 1950. Cf. CIA 593269 also.

(8) Infernation Bullotin of the USER Embassy, ashington, D. C., 12 denury, it contains two papers by H. BATRAKOV, Limster of the Oil Industry, Cf. Reference, k(3), k(7), k(9), k(12), 1(13), 1(14), m (5), Report to Stellin. The 1950 "play" representation was attained 10 December, and 2.2 million metric temporal extracted in addition by the end of the year. Significant extracts from the article, Oil Norkers Fulfil Five-Year Plan Ahead of Schedule: "A number of administrations under this ministry, such as Bashnoft (Ural Region), Kuibysherm (Voiga region), Krasnodarneft (Kuban-Laikop region), Turkmeneft (Turkmen region and Grazneft (Grany region) fulfilled their five-year plan even earlier. In 1614.

The oal fields and refineries of Krasnodar (Kuban-Laikop) region, Grazny, and till Ukraine, which were devastated during the war, have been completely restricted.

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USSR - The national economy of the USSR imposed on the cil industry the task of intensifying oil prospecting in the most promising parts of the country -- Pros pecting drilling (has been) more than quintupled -- Deep drilling in search for oil especially has become widespread in the postwar years --- The turbine nothed of drilling has become most effective in the eastern parts of the hountry with their hard geological formations --- Soviet oil workers used a new method, by which the oil in the ground is kept under constant pressure to deliver a maximum amount of oil --- Now methods of extracting oil from estensibly exhausted deposition are being widely applied in the oil fields of Agneft (Baku region), Groundt (Grosmy region), Krasnedarneft (Kuban-Maikop region), and other administrations The fields of Azerbaijan (Baku region) have been largely equipped with the most modern muchinery, while rich new fields are being developed in the region bordering on the Caspian Sea --- The equipment of cil refinerios has been greatly improved. leading to an increase in the quantity and an improvement in the quality of the oil products manufactured --- The oil fields and refineries that were devastated in the war have been restored, and many new fields, plants, pipelines, reserveines, and workers' dwellings constructed --- In his historic speech of February 5, 1926. J. V. Stalin set before the workers of the Soviet oil industry the task of raising the output of oil to 60 million tous anneally within a period of 15 years, (and) the cil industry workers are resolved to do their utmost to fulfill this back---2 February 1951, Secret, 2 pp., for abstract of this PALBAKOV report, published Fravda, 25 December 1950,

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(cz)	29 January 1951, Secret, Abstracts of Articles in
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Periodicals	Kuban-Maikop, Grozny, and Western Ukraine oilfields were consc
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eand litorices	d with new technical equipment (Pravda, 6 December 1950). 19 0
production	exceeded the Fire Year Plan goal for the year (Pravda Ukrainy)
	曲の事業機能は必 可能は進出なる。
25 November	1950).
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	12 July 1949, Secret, 2 pp; translation of Russian article in Da
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Rabochiy, I	12 July 1949, Secret, 2 pp; translation of Russian article in Da I (1949), Earlier 1949 releases in Bakinskiy Rabochiy (BR) made
Rabochiy, I	12 July 1949, Secret, 2 pp; translation of Russian article in Da I (1949), Earlier 1949 releases in Bakinskiy Rabochiy (BR) made
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Rabochiy, I	12 July 1949, Secret, 2 pp; Granslation of Russian article in Ba I (1949), Earlier 1949 releases in Bakinskiy Rabochiy (BR) made the use of new and improved techniques in exploiting the Baku pe
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Rabochiy, I)	12 July 1949, Secret, 2 pp; translation of Russian article in Ba I (1949). Earlier 1949 releases in Bakinskiy Rabochiy (BR) made the use of new and improved techniques in exploiting the Bakin pe 25X1A: or translations of pertinent 1949 BR articles, Cr.
Rabochiy, I)	12 July 1949, Secret, 2 pp; translation of Russian article in Ba I (1949). Earlier 1949 releases in Bakinskiy Rabochiy (BR) made the use of new and improved techniques in exploiting the Bakin pe 25X1A: or translations of pertinent 1949 BR articles, Cr.
Rabochiy, I)	12 July 1949, Secret, 2 pp; translation of Russian article in Ba I (1949). Earlier 1949 releases in Bakinskiy Rabochiy (BR) made the use of new and improved techniques in exploiting the Bakin pe 25X1A: or translations of pertinent 1949 BR articles, Cr.
however, of reserves 1 25X1A2G	12 July 1949, Secret, 2 pp; translation of Russian article in Ba I (1949). Earlier 1949 releases in Bakinskiy Rabochiy (BR) made the use of new and improved techniques in exploiting the Baku pe 25X1A2 or translations of pertinent 1949 BR articles, Cf. I page: Drillers Set: Record (i.e., in the Baku region)
however, of reserves 1 25X1A2G	12 July 1949, Secret, 2 pp; translation of Russian article in Ba I (1949). Earlier 1949 releases in Bakinskiy Rabochiy (BR) made the use of new and improved techniques in exploiting the Baku pe 25X1A2 or translations of pertinent 1949 BR articles, Cf. I page: Drillers Set: Record (i.e., in the Baku region)
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Rabochiy, II	12 July 1949, Secret, 2 pp; translation of Russian article in Ba I (1949). Earlier 1949 releases in Bakinskiy Rabochiv (BR) made the use of new and improved techniques in exploiting the Baku pe 25X1A2 or translations of pertinent 1949 BR articles, Cf. I page: Drillers Set Record (i.e., in the Baku region) New Methods Used in Azerbeydzhan, in No. 88;
Rabochiy, II	12 July 1949, Secret, 2 pp; translation of Russian article in Ba I (1949). Earlier 1949 releases in Bakinskiy Rabochiv (BR) made the use of new and improved techniques in exploiting the Baku pe 25X1A2 or translations of pertinent 1949 BR articles, Cf. I page: Drillers Set Record (i.e., in the Baku region) New Methods Used in Azerbeydzhan, in No. 88;
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Secret, 2 pp.s New Techniques Expand Production (i.e., in the Baku region),
in No. 91.
(33) CIA 606377. 28 April 1951. Confidential. Fourth Five Year Place
Officially Ended. Gives some data on Soviet oil production, with the
1950 value given as 37.9 million metric tons. 4 pp.
(14) CIA 618810. State Despatch, Moscow 673. Soviet Oil Productions Four
Five Year Plan Results. 18 May 1951. Restricted. Source:
Includes estimated yields by USSR productive areas, for the year
1940, 1946, and 1950. Summarizes Fourth Five Year Plan results as published in
Soviet press 17 April 1951. These lat r published results describe the actual 195
petroleum production as 107 percent of "plan" and 122 percent of the "prewar" rate
of production. The 1950 "plan" production was 35.4 million metric tons, and the
"prewar" base is ordinarily taken as that of the 1940 production at 31.1 million
metric tors. The 1950 production would, therefore, be 37.9 million metric tons
(= 1.07 X 35.4 = 1.22 X 31.1) instead of the lower value of 37.5 in use in intelli
(15) CIA 614027. 10 July 1951. Secret. A. IVANOV: Stalin's Industrial
Base. Published in Posev (Sowing Time). 12 pp. of translation from Russian into
English, Area Analysis Section, Technical Branch, ID, G-2,

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25X1 (16) 1951. Secret. Bashkiria Reports 1950 Achievements, 1951

Pledges, Methods of Petroleum Extraction. English translations of published

Russian articles. 3 pp.

25X1 (17) 10 August 1951. Secret. 7 pp. of English translations of four articles published in Russian. These give percentage increases and plan

fulfillments for crude oil production in the Saratov and Chkalov Oblasts, and in

the Emba and Grozny regions.

25X1 (13) USSR: Petroleum Industry, Production, 15 December 1951.

Restricted. Extracts from Erdoel in der Sovjetunion by HEINRICH HASSMAN, published by Industrieverlag von Hernhaussen K. G. 7 pp. Covers 1950 data: gives estimated of crude production by regions; of total synthetic oil production, with brief notice of the reported reinstallation of German synthetic oil plants in the area of Laka Beikal; of the total number of oilwells producing; of the total oil consumption by categories of usage but not by products; of the status of oil refineries by sites, with values shown for capacity totals; of the status of oil pipelines; of the availability of steel for the petroleum industry (requirements estimated at one ton of steel for every 30-35 tons of petroleum produced); and of the oil imported from Satellites. Buch of the data thus reported does not appear to be confirmed by other available intelligence. In particular, the regional crude production estimates seem to result in part by minor variations of the "State Plan" goals for 1950. The estimate of 17 million metric tons from the Beku region is believed to be much too high and the estimate of 10.6 million metric tons from the Volga-Ural area

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believed to be too low. The reported data on petroleum refinerios are considered to be of little value in view of the general evidence in other intelligence sources. Firty-three sites of refineries are listed, but other source data indicate that the refining installations at a number of these places must be trivial if any true refining equipment is in fact installed. Sixty-six so-called "refineries" are mentioned although it is known that several Soviet installations at different locations are often required to constitute what is understood to be a complete refinery for the processing of crude in the US. "Total refining capacity" is estimated at 33-35 million metric tons, and the "cracking capacity" is ustimated at 13-14 million metric tons. These values have no technical meaning as stated, and if the former is actually crude charge capacity while the latter is true cracking charge capacity, prepondernance of other evidence shows the values to be much too low.

Data on Soviet Petroleum Industry Technology.

25X1

(1) 14 April 1948. Confidential. Text of report: Fie	id Tests of
Rebinders Mothod of Drilling Acceleration, 24 March 1948. Report on a	Soviet
method to reduce the hardness of formations in drilling, with the techni	ques applied
to rotary drilling in the US.	25X1

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nique,				
(2)	3 May 1948. Con	fidential. Text	of report: Research of	
Rebinder an	l Co-workers on Accelerat	ing Drilling, 13	January 1948. Initial	repor
made by the	source of Reference 1 (1)		
(3)	15 March 1949	。 Confidential/	S Officials Only. USSR	g
Observation	on Chemical Research as	Applied to Fuels	. 3 pp. of condensed m	otes
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(4	USSR: Curren	t Research on Pet	roleum and Related Field	ds.
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including catalysis; crude oil and refined product treating; menufacture of particular products such as lubricants, special oils, special chemicals, and miscellaneous byproducts; physical and chemical analytic techniques to determine (or control) the qualities (or quantities) of given stocks; manufacture and use of synthetis materials substituted for natural petroleum and natural gas (1.80. synthetic liquid fuels, and the synthetic fuel gases such as coal gas, producer gas, and water gas); handling techniques in transportation and storage of stocks. Other notes are also given, however, with reference to: research personnel in the USSR petroleum industry; natural petroleum reserves in the USSR; actual records of oilwelt drilling and exploitation practices in the USSR; actual records of refinery constructions in the USSR. All of these notes are fairly consistent with other intelligence data available, and they appear to be generally accorate and authoritative. Included with this report there are the following: a table showing USSR petroleum reserves; a map showing the principal Soviet oil and gas deposits goographically, and a drawing of the 1943 model of the Soviet turbodrill. For other classified intelligence reports by the source of this report, in addition to those 25X1A2G listed under References 1 (1), (2), (3) and (4), of, the following: 25X1A2G on sulforic saids as petroleum bygroducts in the USSR; on synthetic fuel 25X1A2G gases in the USSR: n the World War II Soviet practice of scaling the earth walls of pits for oil storage, by precipitating a film coating of ferric 25X1A2G hydroxide; and on Soviet methods for octans number determination,

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APPENDIX B

SURVEY OF PROBABILE FUTURE CRUDE PRODUCTIONS BY REGIONS

Estimates of future USSR petroleum productions are included in I-A, Availability of Grude Petroleum in the USSR, in this report. Steady increases are indicated in the annual productions for the next several years to come. It is further indicated that most of the future productivity increase will be obtained from the areas designated as Second Baku and Soviet Central Asia. It is probable that increases in the letter area will finally predominate. These conclusions are based upon fairly firm technical data pertinent to the Soviet sedimentary basins suitable for oil accumulation. Fragmentary reports have already inferred significant new oil discoveries in Soviet Central Asia, in the vicinity of the Aral Sea depression.

The most favorable USSR oil prospects are present in the sedimentaries of the Second Eaku, the Soviet Caucasus, and Soviet Central Asia. Small productions are obtain from certain other areas in European Russia, but these source areas are not particularly favorable for large new production. The expanses of Siberia are known to contain small and scattered basins with possible oil prospects, and traces of oil have been reported in places, in the Lake Baikal region but more especially northward and eastward towards the Arctic and Facific Oceans. Known geology and available intelligence indicate little prospect for considerable commercial production in any of the Siberian sediments.

Sakhalin Island furnishes the only commercial oil production obtained in the Soviet Far East. Recorded data are available in some detail, to show the limited probability of a much increased productivity on that island.

While the Caucasus isthmus contains the oldest and formerly most prolific of the USSR oilfields, and also contains basin areas not yet fully prospected, it is not probable

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that new discoveries will completely compensate for depletion in the old pools, even though the old fields continue to contribute heavily to the total USOR production.

The Second Baku is a large area with good prospects in a complex system of basins.

Numerous fields are highly productive in the Second Baku, and organization exists for extensive prospecting, exploitation, and much expanded future production. The Second Baku oil quality has been generally indicated to be inferior, however, and in Soviet Camparad with the Second Baku, Soviet Central Asia has better quality oils and more productivity reasonably in prospect. But due to intensive use of the facilities already organized in the Second Baku, the net production increase in that area will probably exceed the increase in Central Asia until the more recently intensified activities are in full force in the basins of the latter.

Examples of estimated future USSR regional productions are shown in the Table 4.

These estimates are for the year 1955 with a value of 52 million metric tons applied as a rounded figure for the total USSR production in that year. The table shows the 1955 productions by areas, compared with the corresponding estimated productions from identifications in 1950. Of the net annual productivity increase indicated within this period of time, the major part is about equally divided between Soviet Central Asia and the Soviet.

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Table 4. Estimated UBSR Crude Productions by Areas, 1950 and 1955

	Estimated Natural Petroleum Productions Millions of Te/Tr a/
General Soviet Areas Including Oil Productive Regions of 1950	1950 1955
Ukraine and Crimea Area Carpathian, Fastern Ukraine, Crimea Oil Regions New Oil Productive Regions b/	0.34
Western Soviet Caucasis Kuban-Maikop Oil Region New Oil Productive Regions b/	2,4 3,0
Central Soviet Caucasia Grozny Oil Region New Oil Productive Regions b/	2.1 } 2.0
Eastern and Southeastern Soviet Caucasia Baku, Daghestun, South Georgian Oil Regions New Oil Productive Regions b/	16.16] [15.0
Soviet Central Asia including Kazakhstan Emba, Turkmen, Southeastern (Fergana, etc.) Oil Regions New Oil Productive Regions b/	3.7
Second Baku Including Saratov Gas Fields Volga, Ural, Kama Oil Regions New Oil Productive Regions b/	11.5 } (19.0
Northeastern European Russia Pechora Gi. Region New Oil Productive Regions b/	0.5
Far Eastern USSR Sakhalin Cil Region New Cil Productive Area b/	0.8
USSR Total	37.5 52.0

a/ Te/Yr designates metric tons per year.

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b/ New oil regions of the future; not producing in 1950.